



# Lesson Plan

Title of Lesson: Climbing Monkeys		Date: 2010	Timeframe of Lesson: 2 days
Author(s): Laura Erke		School District: Lakewood School	
		Campus:	
Subject Area(s): Math		Grade Level(s)/Course: 7 <sup>th</sup> Grade	
<p>State Standards <a href="http://www.dpi.state.wi.us/dpi/standards/">http://www.dpi.state.wi.us/dpi/standards/</a></p>		<p>Subject Specific: Mathematics</p> <p>F.8.2 Work with linear and nonlinear patterns* and relationships in a variety of ways, including</p> <ul style="list-style-type: none"><li>• representing them with tables, with graphs, and with algebraic expressions, equations, and inequalities</li><li>• describing and interpreting their graphical representations (e.g., slope*, rate of change, intercepts*)</li><li>• using them as models of real-world phenomena</li><li>• describing a real-world phenomenon that a given graph might represent</li></ul> <p>F.8.4 Use linear equations and inequalities in a variety of ways, including</p> <ul style="list-style-type: none"><li>• writing them to represent problem situations and to express generalizations</li><li>• solving them by different methods (e.g., informally, graphically, with formal properties, with technology)</li><li>• writing and evaluating formulas (including solving for a specified variable)</li><li>• using them to record and describe solution strategies</li></ul> <p><i>Technology Specific:</i> <a href="http://dpi.wi.gov/imt/itlstfst.html">http://dpi.wi.gov/imt/itlstfst.html</a></p> <p>C.8.4 Demonstrate self-motivation and increasing responsibility for their learning</p> <ul style="list-style-type: none"><li>• participate in decisions about group and classroom projects and learning objectives</li></ul> <p>A.8.4 Use a computer and communications software to access and transmit information.</p> <ul style="list-style-type: none"><li>• access information using a modem or network connection to the Internet or other on-line information services</li><li>• demonstrate efficient Internet navigation</li></ul>	
<p>Stated Objective(s) Include the focused Instructional Strategy – see chart on page 13.</p>		<p>Students will explore the graphs of linear relationships through an online activity that allows them to make connections between changes in variables and the changes that occur in the graphs.</p> <p>Instructional Strategy: Homework and practice</p>	

Procedures for Lesson	<p>This lesson is part of the CMP2 unit Moving Straight Ahead. Students will have informally been introduced to linear concepts in other contexts.</p> <p>Day 1 (block-90min):</p> <ul style="list-style-type: none"> <li>• Use “Getting Ready” questions as a warm up.</li> <li>• Have students work in groups on the problem for Lesson 2.1. This problem has students explore graphs of linear relationships and how they are related to changes in variables.</li> <li>• Student groups will present their information to the class.</li> <li>• Discuss with the students how the problems they just worked on are not really new concepts but things we have done before. Define the relationships as being “linear.” Ask for input on what they think “linear” means.</li> </ul> <p>Day 2 (45 min):</p> <ul style="list-style-type: none"> <li>• Explain that they will be doing an online activity that simulates 2 linear relationships working together. They will be following the worksheet that provides them with step by step instructions for the activity. They will need to have the packet completed by the end of class. This practice will familiarize students with changes in linear graphs as variables in the situation change.</li> </ul>
Assessment or Evaluation	<p><i>Students will be informally evaluated during classroom discussions on day 1. The activity packet will be graded by the teacher. There will be points assigned to each problem based on its purpose. Some questions are opinions and predictions that will be given points based on completion. The calculation problems will be given points for accuracy.</i></p>
Enrichment	
Materials	<p><i>Climbing Monkeys Packet, textbooks, notebooks</i></p>
	<p><b>Technology Resources:</b> computers, <a href="http://www.phschool.com">www.phschool.com</a> web code: and-5103 for unit Moving Straight Ahead</p> <p><b>Other Resources:</b></p>